

Fig. 1
(Prior Art)

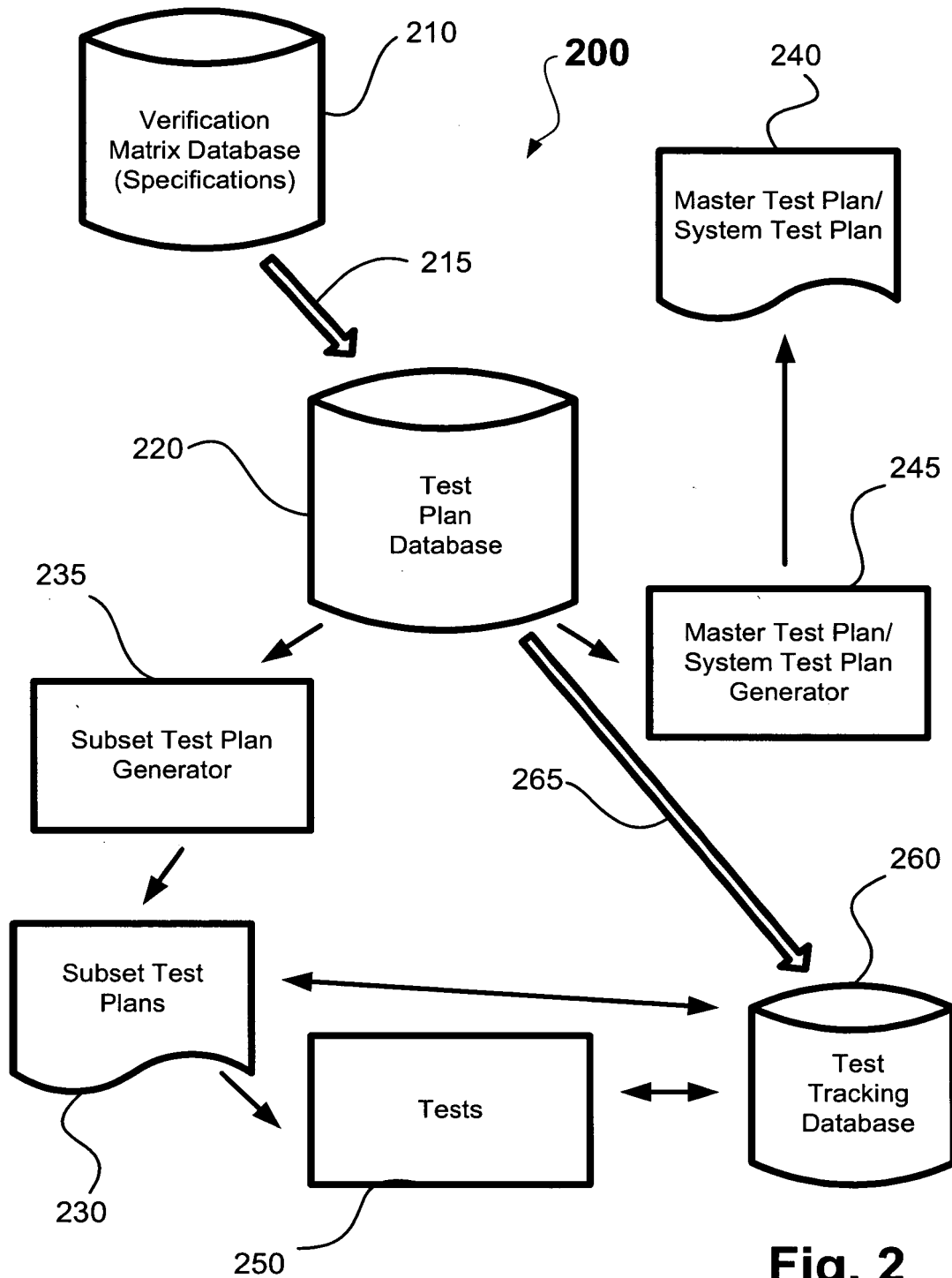


Fig. 2

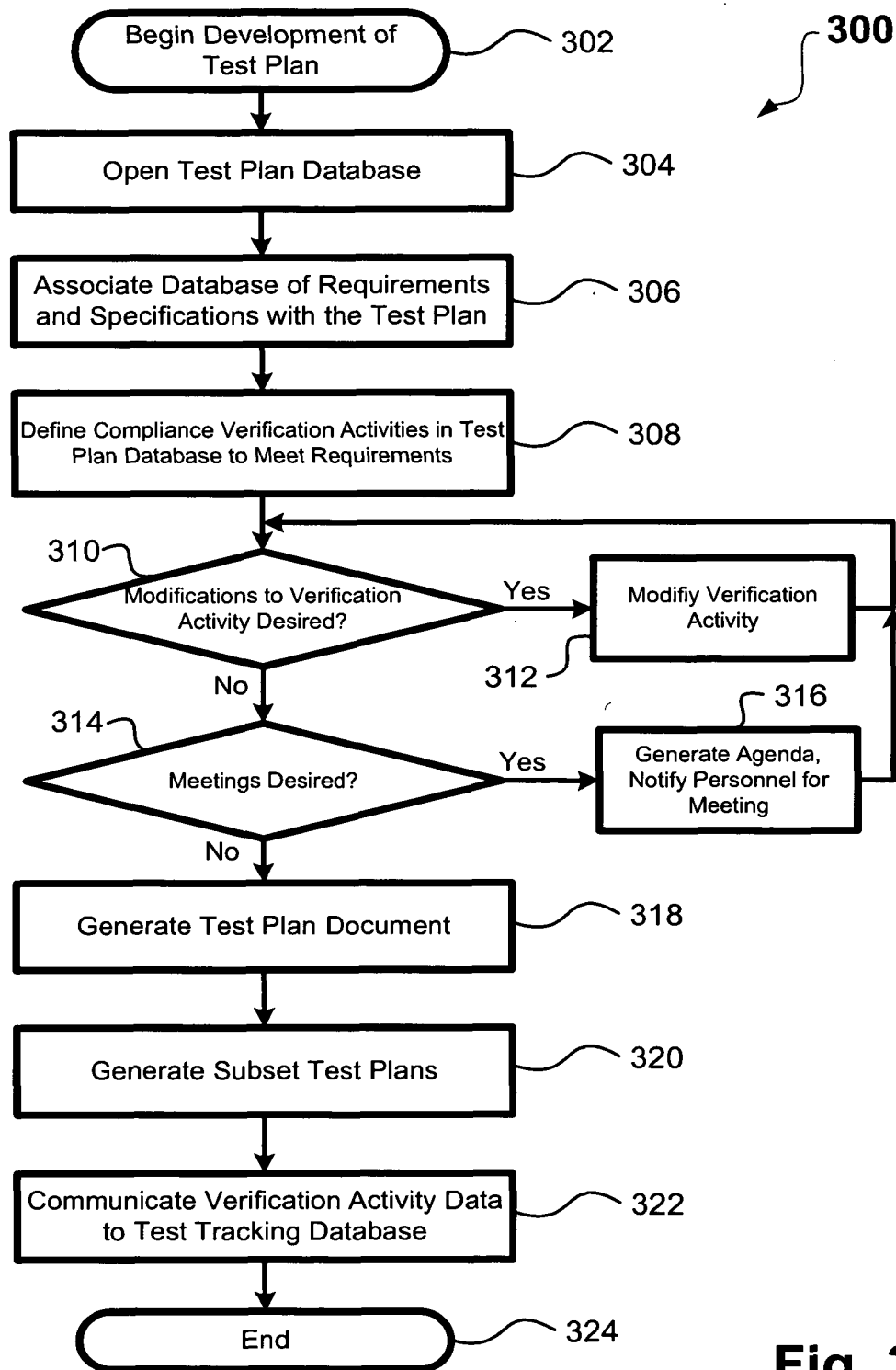


Fig. 3

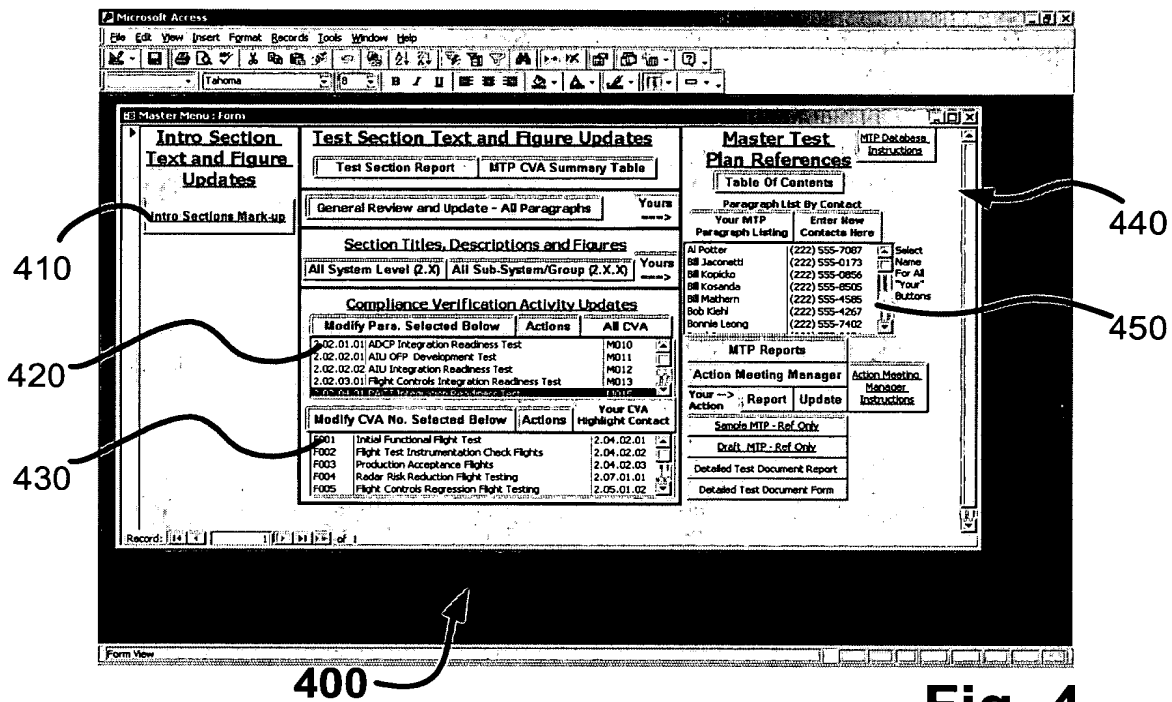


Fig. 4

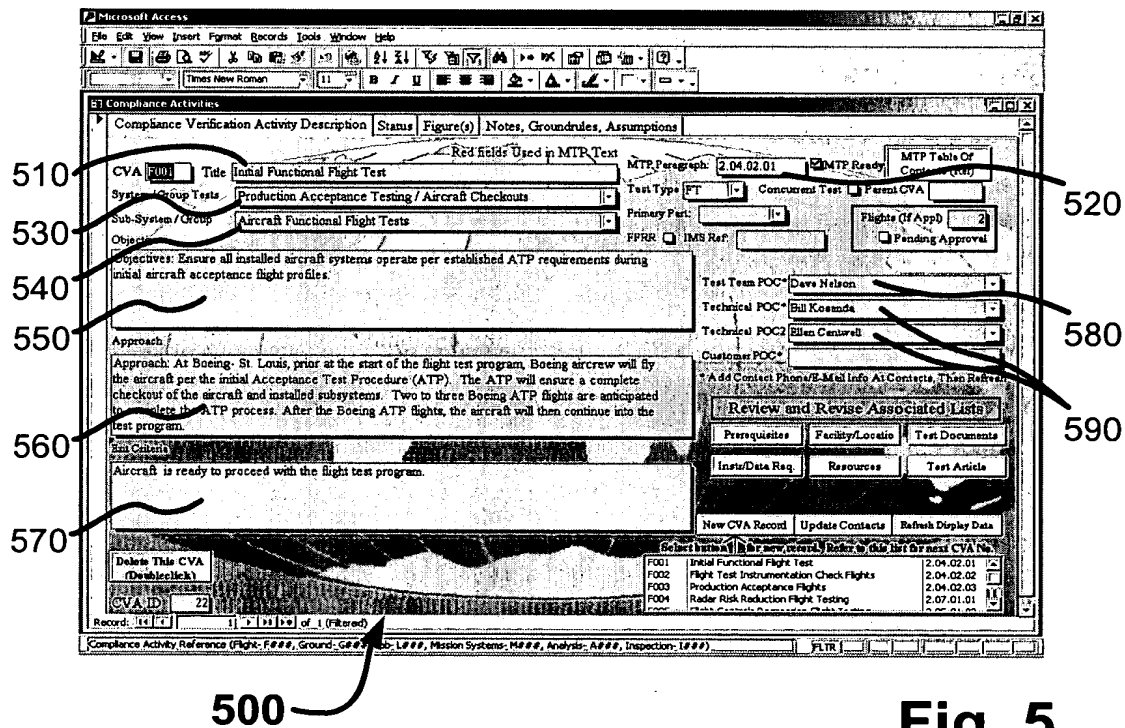


Fig. 5

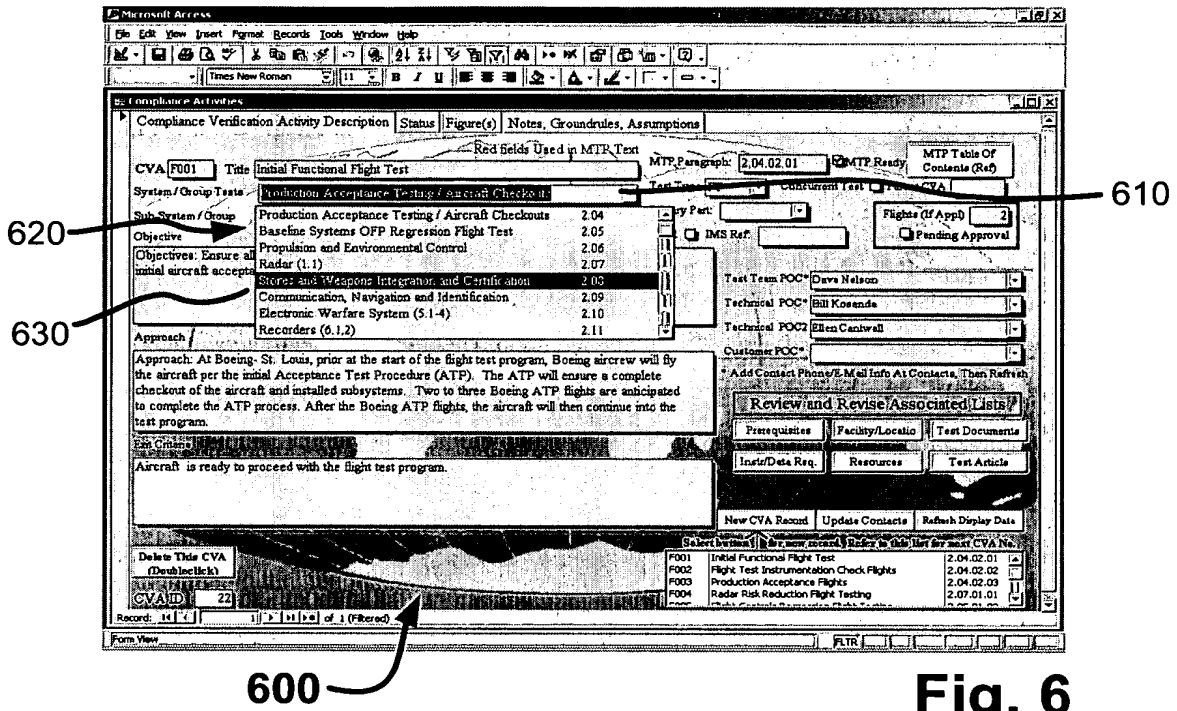


Fig. 6

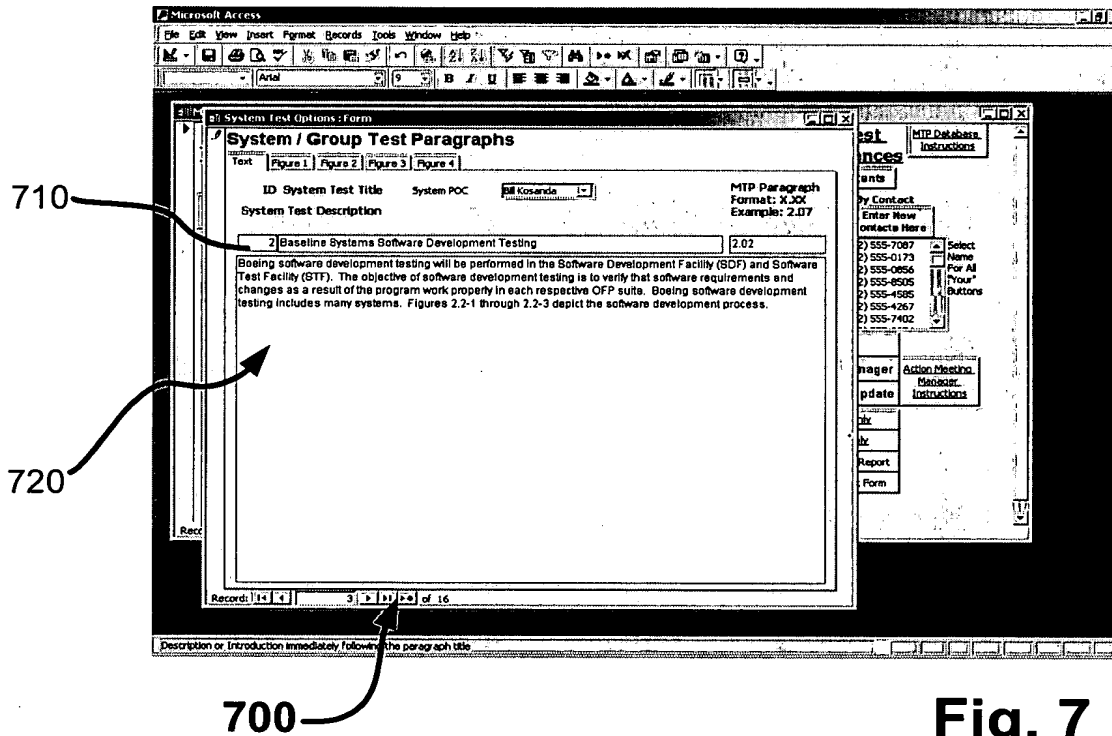


Fig. 7

Microsoft Access

Compliance Activities

Compliance Verification Activity Description Status Figure(s) Notes, Groundrules, Assumptions

CVA F001 Title Initial Functional Flight Test

System / Group Tests Production Acceptance Testing / Aircraft Checkouts

Sub-System / Group Aircraft Functional Flight Tests

Objective

Objectives: Ensure all installed aircraft systems operate per established ATP requirements during initial aircraft acceptance flight profiles.

Approach

Approach: At Boeing - St. Louis, prior to the start of the flight test program, Boeing aircrew will fly the aircraft per the initial Acceptance Test Procedure (ATP). The ATP will ensure a complete checkout of the aircraft and installed subsystems. Two to three Boeing ATP flights are anticipated to complete the ATP process. After the Boeing ATP flights, the aircraft will then continue into the test program.

Exit Criteria

Exit Criteria: Aircraft is ready to proceed with the flight test program.

Delete This CVA (Doubleclick)

CVA ID 22

Record: 1 of 1 (Filtered)

FLTR

810

820

830

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850

800

Fig. 8

Microsoft Access

Compliance Activities

Compliance Verification Activity Description Status Figure(s) Notes

CVA F001 Title Initial Functional Flight Test

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Sub-System / Group Aircraft Functional Flight Tests

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Exit Criteria

Exit Criteria: Aircraft is ready to proceed with the flight test program.

Delete This CVA (Doubleclick)

CVA ID 22

Record: 1 of 6

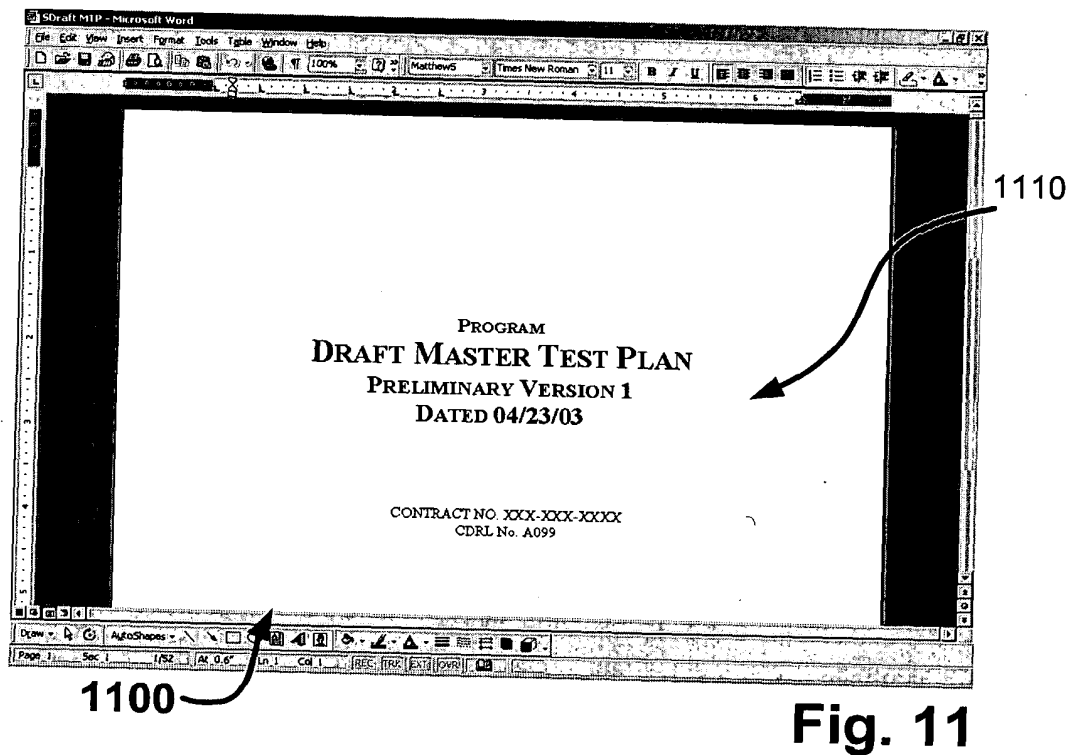
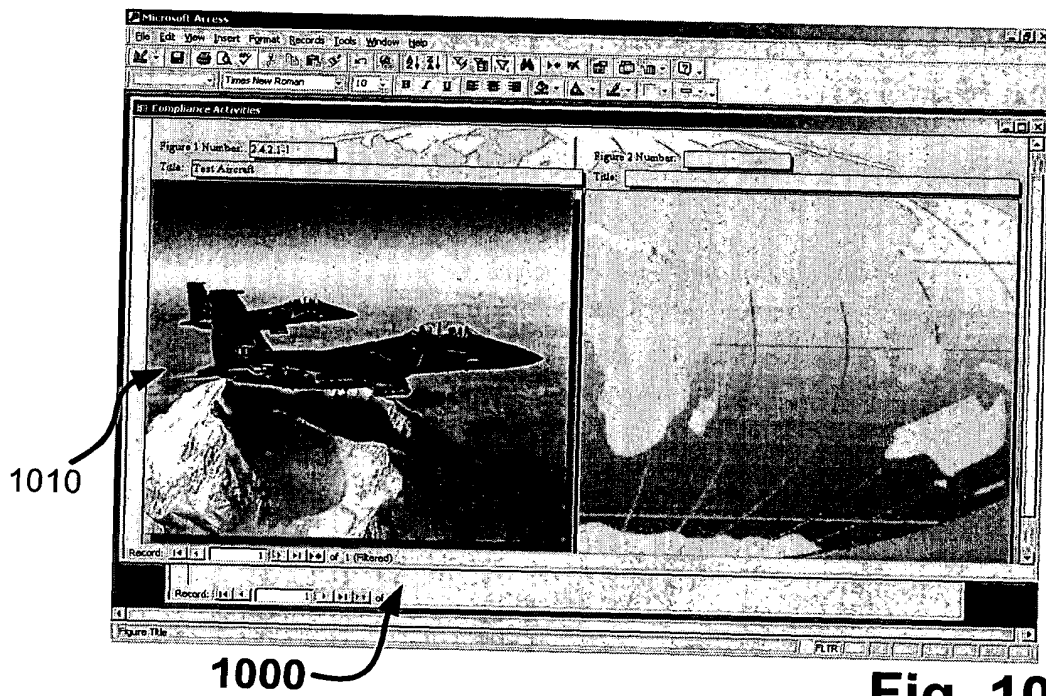
FLTR

920

910

900

Fig. 9



DRAFT MASTER TEST PLAN

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1200

1210

Fig. 12

2.4.1 Aircraft Ground Tests
 Ground Tests will be conducted on at Boeing St. Louis. The ground tests, which are in addition to standard ramp checkout activities, will verify operation and integration of unique capabilities.

2.4.1.1 Avionics Integration Ground Tests G001
 Objectives: Verify operation and integration of baseline and unique avionics capabilities.
 Approach: Approximately one week will be devoted to Avionics Integration Ground Tests at Boeing St. Louis. The ground tests, which are in addition to standard ramp checkout activities, will verify operation and integration of unique capabilities. Experts from different avionics disciplines will verify their systems are operating properly.

2.4.1.2 Flight Test Instrumentation Checkout G002
 Objectives: Verify proper operation of airborne instrumentation system and telemetry ground station prior to first flight.
 Approach: Concurrent with avionics integration checkout and prior to EMC/SOF testing, the onboard instrumentation system will be ground tested. Ground tests will verify analog and multiplex bus measurands, verify the instrumentation format, verify video camera provisions, record onboard data, utilize data telemetry, and verify ground station setup. Calibrations, system ground checks and preflights will be accomplished during aircraft ramp activities.

39

MASTER TEST PLAN

1320

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1300

1310

Fig. 13

1410

DRAFT MASTER TEST PLAN

Table 1.4-1 Test Summary Matrix

MTP Para. Title	CVA	SDT	IRT	SSIT	SIT	LGT	AGT	FT	FlightsPer
2.02.01 ADCP Software Testing									
2.02.01.01 ADCP Integration Readiness Test	M010		M010						-
2.05.01.07 ADCP ODP Development Test	M009	M009							-
2.02.02 AIU Software Testing									
2.02.02.01 AIU ODP Development Test	M011	M011							-
2.02.02.02 AIU Integration Readiness Test	M012		M012						-
2.02.03 FCC Software Testing									
2.02.03.01 Flight Controls Integration Readiness Test	M013		M013						-
2.02.04 PACS Software Testing									
2.02.04.01 PACS Integration Readiness Test	M015		M015						-
2.02.05 ABCD Software Testing									
2.02.05.01 ABCD Integration Readiness Test	M034		M034						-
2.03.01 AIC System Integration Regression Testing									
2.03.01.01 Air-To-Air Mission Integration Regression Test	M001				M001				-
2.03.01.02 Air-To-Ground Mission Integration Regression Test	M002				M002				-
2.03.01.03 Navigation and Flight Aids Integration Regression Test	M004				M004				-
2.03.01.04 Communication and IFF Integration Regression Test	M005				M005				-
2.03.01.05 Built-In-Test (BIT) Integration Regression Test	M003				M003				-
2.03.01.06 ABCD Integration Regression Test	M035				M035				-
2.03.02 Manned Flight Hardware Simulator / Iron Bird Simulator Test									
2.03.02.01 Manned Flight Hardware Simulator (MFHS) / Iron Bird Flight Control	L001					L001			-
2.04.01 Aircraft Ground Tests									
2.04.01.01 Avionics Integration Ground Tests	G001						G001		-
2.04.01.02 Flight Test Instrumentation Checkout	G002						G002		-
2.04.01.03 First Flight EMC SOW Ground Tests	G003						G003		-
2.04.01.04 EMC SOW Ground Test	G005						G005		-

1400

Fig. 14

Microsoft Access

Master Menu: Form

Meeting Series Manager: Select Meeting Series To Modify Below

Item No.	Action Description	Initiator	Due Date	Status/Comments	CVA Ref.
10-01	Start work program spreadsheet to track part and planning status.	Edward Hill	5/22/2003	Spreadsheet is formatted.	
10-02	Start mod. Schedule (ms project)	Edward Hill	5/8/2003	Schedule released.	
10-03	Provide estimate on fab mech parts	Edward Hill	5/8/2003	Parts due 13 June. Greg to provide list of parts	

Meeting Series Action Item List

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Record: 14 of 15

Description of required action

1500

Fig. 15

Microsoft Access

Master Menu: Form

Meeting Series Manager: Select Meeting Series To Modify Below

Item No.	Action Description	Initiator	Due Date	Status/Comments	CVA Ref.
10-01	Start work program spreadsheet to track part and planning status.	Edward Hill	5/22/2003	Spreadsheet is formatted.	
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Record: 14 of 15

Description of required action

1600

Fig. 16

Action Meeting Scheduler

Series ID	Mtg ID	Mtg Title	Date	Time	Phone	Bldg	Room	Host	Instructions
8	42	Initial Test Planning Meeting	6/11/03	12:00-13:00		B3	Rm 201	Bill Jaconetti	
8	31	Initial Test Planning Meeting	4/15/03	9:00-11:00		B3	Rm 120	Dave Nelson	

Agenda Builder

Mtg ID	Item Alpha	Title	CVA (Opt)	Title (Agenda Item Subtitle)	Line ID
42	01	Support Equipment Validation			373
		- Overlap with TO Validation			
		- Duration/Man-hour Requirements			
4	02	Tech Order Validation			374
		- Schedule			
		- Overlap with SE Validation			
2	03	Electro-Magnetic Compatibility Testing	G005	Production Verification EMC Ground Test	375
		- Schedule Changes			
42	04	On Aircraft Training			376
42	05	OFF Release Check-out	F006	Interim Release OFF Regression Flight Testing	377
		- Schedule Changes			

1700

Fig. 17

Initial Test Planning Meeting

Date: 6/11/03 Time: 12:00-13:00 Room: B3, Rm 201 Phone: Host: Bill Jaconetti

Item/Topic	CVA	Test Title	Date	Time	Phone	Host	Tech Contacts
01 Support Equipment Validation		- Overlap with TO Validation					
		- Duration/Man-hour Requirements					
02 Tech Order Validation		- Schedule					
		- Overlap with SE Validation					
03 Electro-Magnetic Compatibility Testing	G005	Production Verification EMC Ground Test	2.04.01.06			Kelly Bachman	
04 On Aircraft Training							
05 OFF Release Check-out	F006	Interim Release OFF Regression Flight Testing	2.05.02.01			Bill Kosanda	
	F007	Final Release OFF Regression Flight Test	2.05.02.02			Bill Kosanda	
06 ATP	F003	Production Acceptance Flights	2.04.02.03			Bill Kosanda	

1800

Fig. 18